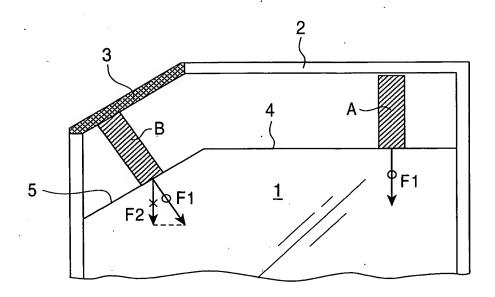
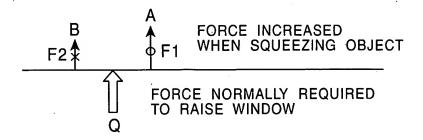
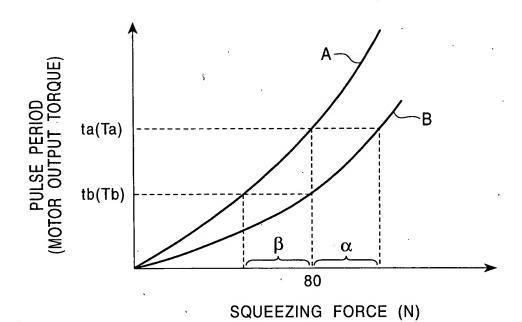
FIG. 1





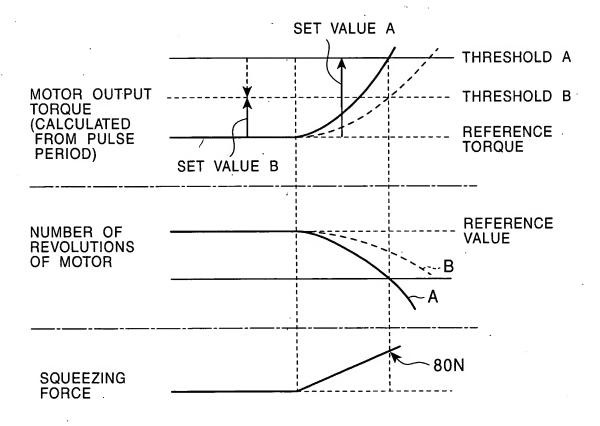
2/4

FIG. 2



3/4

FIG. 3



4 / 4

FIG. 4A

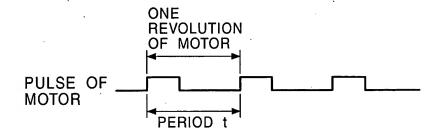


FIG. 4B

$$\tau = \frac{Kt}{Rm} (V-Ke \cdot 1/t)-Tm$$
= Kt I-Tm

1/t: PULSE FREQUENCY

Kt, Rm, Ke, Tm: CONSTANT OF MOTOR